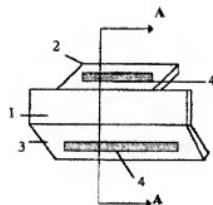


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(54) APPAREIL POUR RASER  
(54) SLIK SHAVER



(57) Les cartouches de rasage pour hommes actuellement sur le marché sont offertes en format régulier unique comportant deux lames. Ce format unique n'est cependant pas pratique pour le rasage de certaines parties plus délicates du visage, telles la moustache et les favoris. La présente propose deux formats différents de cartouche de rasage, chacune pouvant comporter une ou deux lames et fixée à angle sur une cartouche intermédiaire pour un rasage plus facile. En outre, le manchon utilisé pour le montage des cartouches ne sera plus de forme inclinée et ne fera plus appel aux modes de fixation habituels. La poignée, droite, sera conçue pour la fixation des cartouches intermédiaires à l'aide d'un organe de fixation rotatif.

(57) Presently, men's shaving cartridges come in one regular size with two blades on each. However, this size is not practical for shaving the delicate and parts of a man's face, such as the mustache and sideburn regions. Thus, in this proposed invention the shaving cartridges will have two different sizes of shaving cartridges, each with one or two blades, attached to a connecting middle cartridge at an inclined angle to facilitate shaving. Further, the handle used to attach the cartridges will no longer be inclined at the attachment edge and use the traditional methods of attachment. The improved straight handle will be placed and fixed within each new cartridge's middle connecting cartridge, using a rotation type of installment procedure.

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**Abstract:**

Presently, men's shaving cartridges come in one regular size with two blades on each. However, this size is not practical for shaving the delicate and parts of a man's face, such as the mustache and sideburn regions. Thus, in this proposed invention the shaving cartridges will have two different sizes of shaving cartridges, each with one or two blades, attached to a connecting middle cartridge at an inclined angle to facilitate shaving. Further, the handle used to attach the cartridges will no longer be inclined at the attachment edge and use the traditional methods of attachment. The improved straight handle will be placed and fixed within each new cartridge's middle connecting cartridge, using a rotation type of installment procedure.

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**Specification:**

This invention relates to the modern shaving systems for men which consist of a handle and shaving cartridge with the blades. The invention discussed introduces a new cartridge with its own handle for attachment.

The present shaving cartridges are of one size, with one or two mounted blades, attached to a handle with an inclined attachment edge. The cartridges are inconvenient to use for places such as the mustache and side burns due to their size, usually leading the user to cut himself and risk infection. As well, the handles attach to the cartridges using mechanisms that require the handles be placed in position so that the connecting pieces move into place and are removed by pressing on a release mechanism button. The attachment procedure of present handles is too problematic since it is complex to use and easily damaged.

The invention proposes a new cartridge be used with two sizes of cartridges be attached to the middle connecting piece at an inclination. The cartridge will have a short and long cartridge attached at an inclined angle to the middle connecting piece. Thus, a man can shave his beard using the long side for the accessible areas and just turn the handle around and use the shorter cartridge for the mustache and other difficult areas. The new cartridge will be attached to a handle that attaches to the middle connecting pieces, by being placed in its opening. Subsequently, the user needs to rotate the handle clockwise to fix it in place or counterclockwise to remove it. Thus, the new handle is easier to install and is more reliable for long term use compared to other used mechanisms.

The following embodiments illustrate the invention: Figure 1 is the front elevation view, Figure 2 is the side cross sectional cartridge view within handle placement space, Figure 3 is the top rear plan view of the connecting mechanism, Figure 4 is the side cross sectional view of cartridge in the region outside handle space (Section B-B), Figure 5 is the 3 - Dimensional cross section of Small and Large cartridge (Section C-C), Figure 6 is the plane cross section of Small and Large cartridge with blade arrangement and Figure 7 is the side elevation of the entire cartridge.

The cartridge proposed in this invention can be seen in (Fig 1). The smaller cartridge (2) and the larger cartridge (3), will be inclined at  $60^{\circ}$  to the axis of the middle cartridge, seen in (Fig 2). Each inclined side cartridge will have either one or two blades, the length of which will be proportional to the cartridges size since they shall extend

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from edge to edge. The handle will be square in cross section. The handle's head, top connecting part, will have protruding side rectangular boxes (5a) along the length of two opposite sides only, as seen in (Fig.2). The handle will be rotated so that the protruding boxes come under the hollow part of the middle cartridge (1), referring to the dotted portion (7) in (Fig. 3). Further, from (Fig.3) it can be seen that the handle can't be removed without turning counterclockwise. The dotted position (7) can not be passed by more clockwise turning due to the presence of the Position Walls (8) and (9). The Position Walls (8) and (9) prevents further turning, it consists of a rectangular box extending from across the thickness of the middle connecting cartridge (1), seen in (Fig. 4). The middle cartridge(1) shall be hollow on the interior except for the Position Walls (8) and (9), seen in (Fig. 4). Within each shaving cartridge the blades have a Blade Embedded Bends (12), which are at 90° to the blades (4) and on either end. The Blade Embedded Bends (12) of each blade (4) will fit into both sides of the middle cartridge fixing the blades into place, illustrated in (Fig. 5).The Blade Embedded End shall extend along the entire width of the shaving cartridges (2&3), seen in (Fig.7). The blades shall be mounted on Flexible Plastic Arches (11) that shall allow vertical movement, seen in (Fig. 4 & 5).

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CLAIMS

- 1) The SLIK system has a unique double shaving cartridge, which means that it has two shaving cartridges with different or same dimensions attached at an inclined angle to the longitudinal axis of the middle connecting piece.
- 2) The attached shaving cartridges of different sizes will consist of a smaller inclined cartridge, which has all the same dimensions as the longer cartridge except for having a different longitudinal length dimension.
- 3) The cartridges will be attached at different inclinations to the connecting piece, whereby the entire cartridge with all three piece will be produced as a whole or in separate with appropriate assemblage, depending on industrial and economic capability and government requirements for such production.
- 4) The inclined cartridge will have the same interior blade system, where the each blade is rested upon an extended plastic arch capable of movement up and down perpendicular to the longitudinal axis of the cartridge and with some tilting capacity.
- 5) The two inclined cartridges will have interior arches, exterior casings and other pieces made of plastic or polymer based products or other government required or acceptable materials.
- 6) The blades will be made of metallic based or other government required or acceptable materials, will satisfy all requirements concerning their sharpness along their protruding length.

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- 7) The connecting piece between the two cartridges will be made of plastic or polymer based products or other government required or acceptable materials.
- 8) The handle will be a separate piece of the shaving system with the described turning system attachment procedure, where by it can only be turned in one different direction to attach or disconnect from the middle hollow connecting piece of the described cartridge.
- 9) The entire cartridge will be made of any plastic based, polymer based or other acceptable material in accordance to government industry standards of required or acceptable materials.

Nemr Tanois Saliba,



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Fig. 1:

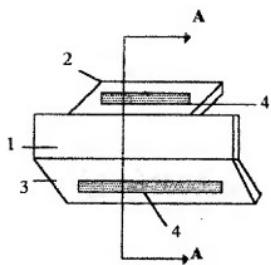
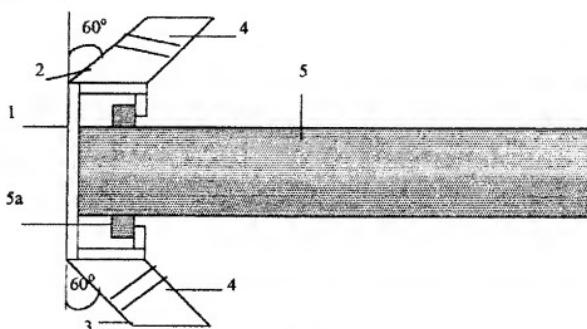
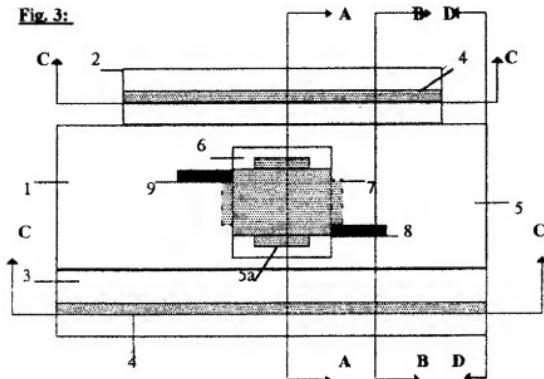


Fig. 2 : (A - A)



Legend :

- 1- Middle connecting cartridge
- 2- Small Cartridge
- 3- Large Cartridge
- 4- Shaving Blade
- 5- Handle
- 5a- Protruding Rectangular boxes

Fig. 3:Legend :

- 1- Middle connecting cartridge
- 2- Small cartridge
- 3- Large Cartridge
- 4- Shaving Blade
- 5- Handle
- 5a- Protruding Rectangular boxes.
- 6- Space within middle cartridge  
for handle placement and connection.
- 7- Rotated position of handle in  
place(Dotted Lines)
- 8- Position Wall to prevent clockwise handle  
rotation
- 9- Position wall to prevent counter clockwise  
handle rotation

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Fig. 4: ( B-B )

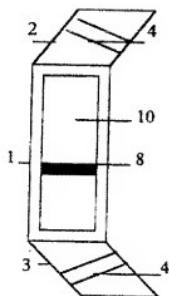
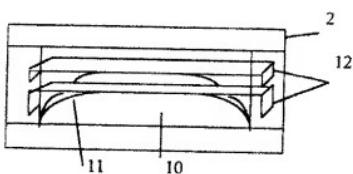


Fig. 5:  
(C-C)



Legend :

- 1- Middle connecting cartridge
- 2- Small cartridge
- 3- Large Cartridge
- 4- Shaving Blade
- 10- Hollow Part of Middle Cartridge
- 11- Flexible Plastic Arches
- 12- Blade Embedded End

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Fig. 6 : (C-C)

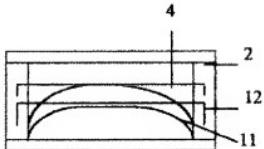
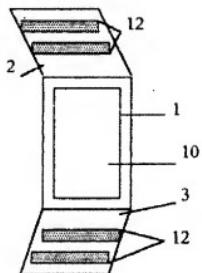


Fig. 7: (D-D)



Legend :

- 1- Middle connecting cartridge
- 2- Small cartridge
- 3- Large Cartridge
- 4- Shaving Blade
- 10- Hollow Part of Middle Cartridge
- 11- Plastic Support System
- 12- Blade Embedded End